



advanced FLOW engineering
Instruction Manual P/N: 46-50014-B

Make: **Jeep** Model: **Wrangler** Year: **2011-2018** Engine: **V-6 3.6L**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Radiator Hose, Upper: 46-50018-B	05-60777B
B	1	Radiator Hose, Lower: 46-50019-B	05-60778B
C	4	Clamp, T-Bolt: 1.80" Dia	03-50578

Tools Needed: Flat Head Screwdriver, pick, extension, ratchet, 8mm, 10mm, 11mm sockets, pliers.

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.





1. Park vehicle on level ground and engage the parking brake.
2. Open the hood and locate the upper and lower radiator hoses.
3. Locate the drain plug on your radiator and drain all the radiator fluid out of the radiator into a drain pan.



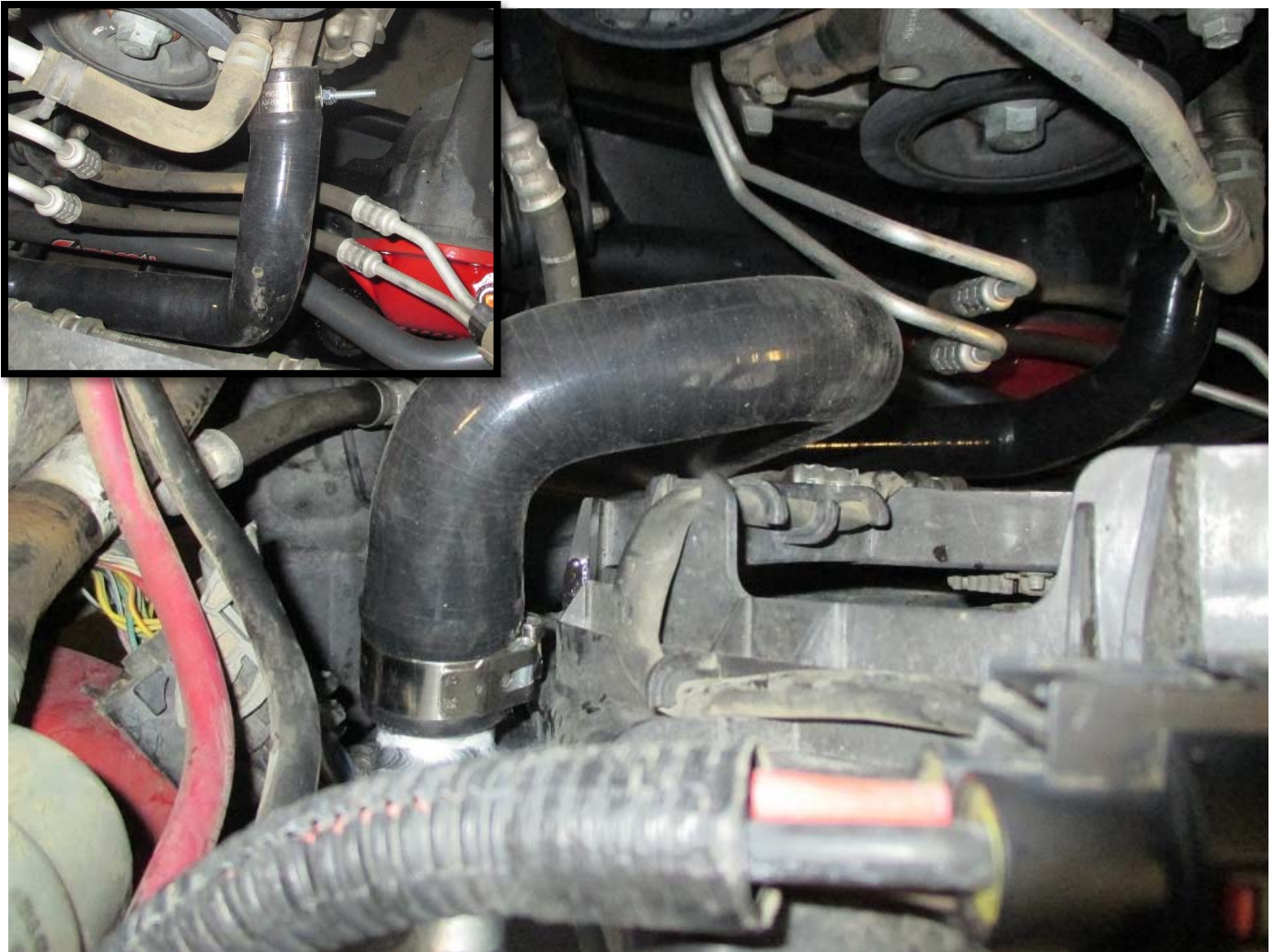
4. Remove engine cover.
5. Disconnect the temperature sensor and breather hose from the air intake system.
6. Remove the intake air box and tube from the vehicle for easy access to the lower radiator hose.
7. Slide the two radiator hose clamps on the upper radiator hose back so the hose can be disconnected from the radiator and the engine, using pliers to squeeze the clamp.
8. Remove the upper radiator hose from the vehicle.



9. Install the new hose clamps onto the new aFe upper radiator hose.
10. Install the radiator hose into the vehicle with the aFe logo to where it can be read from the front of the Jeep.
11. Rotate the new hose clamps to where they will not be rubbing on anything and tighten them using an 11mm socket.



12. Locate the lower radiator hose on the passenger side of the vehicle.
13. Slide the two radiator hose clamps on the lower radiator hose back so the hose can be disconnected from the radiator and the engine, using pliers to squeeze the clamp.
14. Remove the lower radiator hose from the vehicle.



15. Install the new hose clamps onto the new aFe lower radiator hose.
16. Install the radiator hose into the vehicle with the aFe logo to where it can be read from the front of the Jeep.
17. Rotate the new hose clamps to where they will not be rubbing on anything and tighten them using an 11mm socket.



18. Install the intake system back into the vehicle.
19. Reconnect the temperature sensor and breather hose.
20. Use the proper Chrysler coolant refill procedure to be sure that all of the air gets out of the system when refilling the coolant.
21. Top off coolant in the radiator, fill overflow bottle to the max line, and install radiator cap.
22. Test drive vehicle.
23. Install engine cover.
24. Let vehicle cool down then check coolant levels, top off if needed.

Install is now complete!!!

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Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is nontransferable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category	P/N Prefix	Warranty duration
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72	2 years
Air Intake Systems	50, 51, 54, 55, 75	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81, 87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.



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